UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 6 Laboratory
Environmental Services Branch
10625 Fallstone Road, Houston, TX 77099
Phone: (281)983-2100 Fax: (281)983-2248

DRAFT Final Analytical Report

Site Name ----------Dimock Residential Groundwater Site

Sample Collection Date(s)-- 05/22/12 - 05/23/12

Contact---------- Cynthia Caporale (3EA21)

Report Date---------- 05/31/12

Project #---------- 12SF110

Work Order(s)---------- 1205010

Analyses included in this report:

ABN Glycols

Report Narrative

Standard procedures for quality assurance and quality control were followed in the analysis and reporting of the sample results. The results apply only to the samples tested. This final report should only be reproduced in full.

Reporting limits are adjusted for sample size and matrix interference.

Report Approvals:

Richard McMillin
Region 6 Laboratory Manager

David Neleigh
Region 6 Laboratory Branch Chief

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Environmental Services Branch Laboratory

10625 Fallstone Road
Houston, Texas 77099

Sample Receipt and Disposal

Site Name: Dimock Residential Groundwater Site Project Number: 12SF110

Data Management Coordinator: Christy Warren

___ / /
Data Management Coordinator Signature Date

Date Transmitted: _____/_____/_____

Please have the U.S. EPA Project Manager/Officer call the Data Management Coordinator at 3-2137 for any comments or questions.

Please sign and date this form below and return it with any comments to:

Christy Warren
Data Management Coordinator
Region 6 Laboratory
6MD-HS

_____/____/_____
Received by and Date

Comments:

The laboratory routinely disposes of samples 90 days after all analyses have been completed. If you have a need to hold these samples in custody longer than 90 days, please sign below.

_____ _____
Signature Date

Please provide a reason for holding:

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ANALYTICAL REPORT FOR SAMPLES

Station ID	Laboratory ID	Sample Type	Date Collected	Date Received
FB23	1205010-01	Liquid	5/23/12 13:25	05/24/12 09:00
HW63	1205010-02	Liquid	5/23/12 13:09	05/24/12 09:00
HW63z	1205010-03	Liquid	5/23/12 13:10	05/24/12 09:00
FB22	1205010-04	Liquid	5/22/12 11:58	05/24/12 09:00
HW62	1205010-05	Liquid	5/22/12 15:59	05/24/12 09:00
HW64	1205010-06	Liquid	5/22/12 11:10	05/24/12 09:00
HW64-P	1205010-07	Liquid	5/22/12 11:40	05/24/12 09:00

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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

ABN Glycols

Lab ID: 1205010-01 **Station ID: FB23**

Batch: B2E2402
Sample Type: Liquid

Date Collected: 05/23/12
Sample Vol: 1ml

Sample Qualifiers:
Analyst: DG

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	05/24/12	05/24/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

DG

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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS
ABN Glycols

Lab ID: 1205010-02 **Station ID: HW63**

Batch: B2E2402 Date Collected: 05/23/12
Sample Type: Liquid Sample Vol: 1ml Sample Qualifiers:
Analyst: DG

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	05/24/12	05/24/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

DG

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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS
ABN Glycols

Lab ID: 1205010-03 **Station ID: HW63z**

Batch: B2E2402 Date Collected: 05/23/12
Sample Type: Liquid Sample Vol: 1ml Sample Qualifiers:
Analyst: DG

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	05/24/12	05/24/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

DG

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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

ABN Glycols

Lab ID: 1205010-04 **Station ID: FB22**

Batch: B2E2402 Date Collected: 05/22/12
Sample Type: Liquid Sample Vol: 1ml Sample Qualifiers:
Analyst: DG

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	05/24/12	05/24/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

DG

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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS
ABN Glycols

Lab ID: 1205010-05 **Station ID: HW62**

Batch: B2E2402 Date Collected: 05/22/12
Sample Type: Liquid Sample Vol: 1ml Sample Qualifiers:
Analyst: DG

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	05/24/12	05/24/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

DG

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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS
ABN Glycols

Lab ID: 1205010-06 **Station ID: HW64**

Batch: B2E2402 Date Collected: 05/22/12
Sample Type: Liquid Sample Vol: 1ml Sample Qualifiers:
Analyst: DG

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	05/24/12	05/24/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

DG

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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS
ABN Glycols

Lab ID: 1205010-07 **Station ID: HW64-P**

Batch: B2E2402 Date Collected: 05/22/12
Sample Type: Liquid Sample Vol: 1ml Sample Qualifiers:
Analyst: DG

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	05/24/12	05/24/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

DG

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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS - Quality Control

Batch: B2E2402 **Sample Type: Liquid**

Blank (B2E2402-BLK1)

Prepared: 5/24/2012 Analyzed: 5/24/2012

Targets

ANALYTE	Result mg/L	Analyte Qualifiers	Reporting Limit
Propylene glycol	U		2.0
Ethylene glycol	U		2.0

LCS (B2E2402-BS1)

Prepared: 5/24/2012 Analyzed: 5/24/2012

Targets

ANALYTE	Result mg/L	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Propylene glycol	9.2		2.0	10.0	91.8	70-130
Ethylene glycol	9.4		2.0	10.0	94.3	70-130

Matrix Spike (B2E2402-MS1)

Source: 1205010-05 Prepared: 5/24/2012 Analyzed: 5/24/2012

Targets

ANALYTE	Result mg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits
Propylene glycol	9.8		2.0	10.0		98.3	70-130
Ethylene glycol	11.1		2.0	10.0		111	70-130

Matrix Spike Dup (B2E2402-MSD1)

Source: 1205010-05 Prepared: 5/24/2012 Analyzed: 5/24/2012

Targets

ANALYTE	Result mg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Propylene glycol	9.0		2.0	10.0		90.0	70-130	8.89	30
Ethylene glycol	10.5		2.0	10.0		105	70-130	5.58	30

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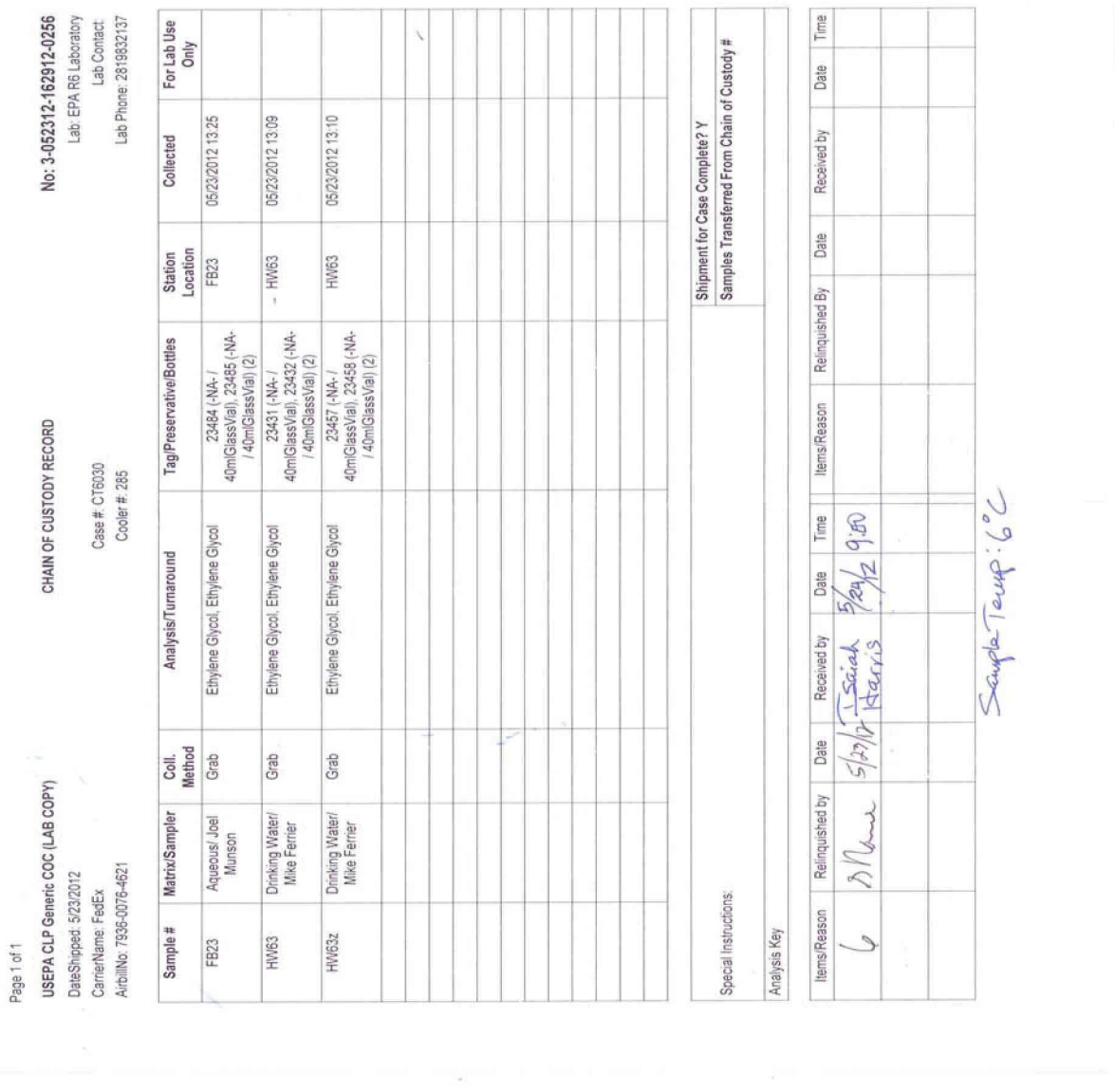

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USEPA CLP Generic COC (LAB COPY) **CHAIN OF CUSTODY RECORD** **No: 3-052312-162912-0256**

DateShipped: 5/23/2012 Lab: EPA R6 Laboratory
CarrierName: FedEx Case #: CT6030 Lab Contact:
AirbillNo: 7936-0076-4621 Cooler #: 285 Lab Phone: 2819832137

Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	For Lab Use Only
FB23	Aqueous/ Joel Munson	Grab	Ethylene Glycol, Ethylene Glycol	23484 (-NA- / 40ml/GlassVial), 23485 (-NA- / 40ml/GlassVial) (2)	FB23	05/23/2012 13:25	
HW63	Drinking Water/ Mike Ferrier	Grab	Ethylene Glycol, Ethylene Glycol	23431 (-NA- / 40ml/GlassVial), 23432 (-NA- / 40ml/GlassVial) (2)	HW63	05/23/2012 13:09	
HW63z	Drinking Water/ Mike Ferrier	Grab	Ethylene Glycol, Ethylene Glycol	23457 (-NA- / 40ml/GlassVial), 23458 (-NA- / 40ml/GlassVial) (2)	HW63	05/23/2012 13:10	

Special Instructions:

Shipment for Case Complete? Y
Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
6		5/23/12	Isaiah Harris	5/24/12	9:50						

Sample Temp: 6°C

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USEPA CLP Generic COC (LAB COPY) | **CHAIN OF CUSTODY RECORD** | **No: 3-052312-111024-0250**

DateShipped: 5/23/2012
CarrierName: FedEx
AirbillNo: 7935-9767-7537

Case #: CT6030

Lab: EPA R6 Laboratory
Lab Contact:
Lab Phone: 2819832137

Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	For Lab Use Only
FB22	Aqueous/ Mike Ferrier	Grab	Ethylene Glycol, Ethylene Glycol	23232 (-NA- / 40mlGlassVial), 23233 (-NA- / 40mlGlassVial) (2)	FB22	05/22/2012 11:58	
HW62	Drinking Water/ Mike Ferrier	Grab	Ethylene Glycol, Ethylene Glycol, Ethylene Glycol, Ethylene Glycol, Ethylene Glycol, Ethylene Glycol	23332 (-NA- / 40mlGlassVial), 23333 (-NA- / 40mlGlassVial), 23350 (-NA- / 40mlGlassVial), 23351 (-NA- / 40mlGlassVial), 23352 (-NA- / 40mlGlassVial), 23353 (-NA- / 40mlGlassVial) (6)	HW62	05/22/2012 15:59	
HW64	Drinking Water/ Mike Ferrier	Grab	Ethylene Glycol, Ethylene Glycol	23186 (-NA- / 40mlGlassVial), 23187 (-NA- / 40mlGlassVial) (2)	HW64	05/22/2012 11:10	
HW64-P	Drinking Water/ Mike Ferrier	Grab	Ethylene Glycol, Ethylene Glycol	23204 (-NA- / 40mlGlassVial), 23205 (-NA- / 40mlGlassVial) (2)	HW64-P	05/22/2012 11:40	

Sample(s) to be used for Lab QC: HW62

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
12	Mone	5-23-12	Isaiah Harris	5/24/12	9:00						

Sample Temp: 5°C

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Notes and Definitions

A	This sample was extracted at a single acid pH.
HTS	Sample was prepared and/or analyzed past recommended holding time. Concentrations should be considered minimum values.
AES	Atomic Emission Spectrometer
CVAA	Cold Vapor Atomic Absorption
ECD	Electron Capture Detector
GC	Gas Chromatograph
GFAA	Graphite Furnace Atomic Absorption
ICP	Inductively Coupled Plasma
MS	Mass Spectrometer
NA	Not Applicable
NPD	Nitrogen Phosphorous Detector
NR	Not Reported
TCLP	Toxicity Characteristic Leaching Procedure
U	Undetected
#	Out of QC limits

Initial pressure in air analyses is the pressure at which the canister was received in psia (pounds *per* square inch absolute pressure).

The pH reported for Volatile liquid samples was tested using a 0-14 pH indicator strip for the purpose of verifying chemical preservation.

The statistical software used for the reporting of toxicity data is ToxCalc 5.0.32, Environmental Toxicity Data Analysis System 1994-2007 Tidepool Scientific Software.